Kai-Chiang Yang

List of Publications by Year
in descending order

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84	1,297	361045	433756
papers	citations	20 h-index	31 g-index

85	85	85	2148
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Thermosensitive Chitosanâ€“Gelatinâ€“Glycerol Phosphate Hydrogels as a Cell Carrier for Nucleus Pulposus Regeneration: AnIn VitroStudy. Tissue Engineering - Part A, 2010, 16, 695-703.	1.6	111
2	Shape memory effect in 3D-printed scaffolds for self-fitting implants. European Polymer Journal, 2017, 93, 222-231.	2.6	91
3	Cartilage regeneration in SCID mice using a highly organized three-dimensional alginate scaffold. Biomaterials, 2012, 33, 120-127.	5.7	64
4	Fibrin glue mixed with platelet-rich fibrin as a scaffold seeded with dental bud cells for tooth regeneration. Journal of Tissue Engineering and Regenerative Medicine, 2012, 6, 777-785.	1.3	54
5	Chitosan/gelatin hydrogel as immunoisolative matrix for injectable bioartificial pancreas. Xenotransplantation, 2008, 15, 407-416.	1.6	42
6	Fabrication of large perfusable macroporous cell-laden hydrogel scaffolds using microbial transglutaminase. Acta Biomaterialia, 2014, 10, 912-920.	4.1	40
7	The cytoprotection of chitosan based hydrogels in xenogeneic islet transplantation: An in vivo study in streptozotocin-induced diabetic mouse. Biochemical and Biophysical Research Communications, 2010, 393, 818-823.	1.0	37
8	Hydrophilic/hydrophobic surface of Al 2 O 3 thin films grown by thermal and plasma-enhanced atomic layer deposition on plasticized polyvinyl chloride (PVC). Surface and Coatings Technology, 2016, 305, 158-164.	2.2	35
9	Electrofusion of Mesenchymal Stem Cells and Islet Cells for Diabetes Therapy: A Rat Model. PLoS ONE, 2013, 8, e64499.	1.1	30
10	The Effects of Different Dynamic Culture Systems on Cell Proliferation and Osteogenic Differentiation in Human Mesenchymal Stem Cells. International Journal of Molecular Sciences, 2019, 20, 4024.	1.8	27
11	Optimization of puncture injury to rat caudal disc for mimicking early degeneration of intervertebral disc. Journal of Orthopaedic Research, 2018, 36, 202-211.	1.2	26
12	Keratin scaffolds with human adipose stem cells: Physical and biological effects toward wound healing. Journal of Tissue Engineering and Regenerative Medicine, 2019, 13, 1044-1058.	1.3	26
13	Modulation of keratin in adhesion, proliferation, adipogenic, and osteogenic differentiation of porcine adiposeâ€derived stem cells. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2017, 105, 180-192.	1.6	25
14	A biomimetic honeycombâ€like scaffold prepared by flowâ€focusing technology for cartilage regeneration. Biotechnology and Bioengineering, 2014, 111, 2338-2348.	1.7	23
15	Human Adipose-Derived Stem Cell Secreted Extracellular Matrix Incorporated into Electrospun Poly(Lactic-co-Glycolic Acid) Nanofibrous Dressing for Enhancing Wound Healing. Polymers, 2019, 11, 1609.	2.0	23
16	Lovastatin prevents discography-associated degeneration and maintains the functional morphology of intervertebral discs. Spine Journal, 2014, 14, 2459-2466.	0.6	22
17	Ex Vivo Expanded Circulating Tumor Cells for Clinical Anti-Cancer Drug Prediction in Patients with Head and Neck Cancer. Cancers, 2021, 13, 6076.	1.7	22
18	Calcium phosphate cement delivering zoledronate decreases bone turnover rate and restores bone architecture in ovariectomized rats. Biomedical Materials (Bristol), 2012, 7, 035009.	1.7	21

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19	Expandable Scaffold Improves Integration of Tissue-Engineered Cartilage: An In Vivo Study in a Rabbit Model. Tissue Engineering - Part A, 2016, 22, 873-884.	1.6	21
20	Effects of scaffold geometry on chondrogenic differentiation of adipose-derived stem cells. Materials Science and Engineering C, 2020, 110, 110733.	3.8	20
21	In Vitro Studies of Composite Bone Filler Based on Poly(Propylene Fumarate) and Biphasic Î±â€Tricalcium Phosphate/Hydroxyapatite Ceramic Powder. Artificial Organs, 2012, 36, 418-428.	1.0	19
22	Effect of hesperidin on anti-inflammation and cellular antioxidant capacity in hydrogen peroxide-stimulated human articular chondrocytes. Process Biochemistry, 2019, 85, 175-184.	1.8	19
23	The therapeutic effect of aucubin-supplemented hyaluronic acid on interleukin-1beta-stimulated human articular chondrocytes. Phytomedicine, 2019, 53, 1-8.	2.3	18
24	Er,Cr:YSGG Laser Performance Improves Biological Response on Titanium Surfaces. Materials, 2020, 13, 756.	1.3	18
25	l-Glutathione enhances antioxidant capacity of hyaluronic acid and modulates expression of pro-inflammatory cytokines in human fibroblast-like synoviocytes. Journal of Biomedical Materials Research - Part A, 2016, 104, 2071-2079.	2.1	17
26	Effects of thermosensitive chitosan-gelatin based hydrogel containing glutathione on Cisd2-deficient chondrocytes under oxidative stress. Carbohydrate Polymers, 2017, 173, 17-27.	5.1	17
27	Silica-modified Fe-doped calcium sulfide nanoparticles for in vitro and in vivo cancer hyperthermia. Journal of Nanoparticle Research, 2011, 13, 1139-1149.	0.8	16
28	Effects of the addition of vancomycin on the physical and handling properties of calcium sulfate bone cement. Process Biochemistry, 2014, 49, 2285-2291.	1.8	16
29	The prediction of drug metabolism using scaffold-mediated enhancement of the induced cytochrome P450 activities in fibroblasts by hepatic transcriptional regulators. Biomaterials, 2012, 33, 5187-5197.	5.7	15
30	Intraâ€articular Injection of plateletâ€rich fibrin releasates in combination with bone marrowâ€derived mesenchymal stem cells in the treatment of articular cartilage defects: An in vivo study in rabbits. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2017, 105, 1536-1543.	1.6	15
31	The influence of bubble size on chondrogenic differentiation of adipose-derived stem cells in gelatin microbubble scaffolds. Journal of Materials Chemistry B, 2018, 6, 125-132.	2.9	15
32	Strontium-impregnated bioabsorbable composite for osteoporotic fracture fixation. Journal of Biomedical Materials Research - Part A, 2015, 103, 3355-3363.	2.1	14
33	Tooth Germâ€Like Construct Transplantation for Wholeâ€Tooth Regeneration: An In Vivo Study in the Miniature Pig. Artificial Organs, 2016, 40, E39-50.	1.0	14
34	Chitosan-cartilage extracellular matrix hybrid scaffold induces chondrogenic differentiation to adipose-derived stem cells. Regenerative Therapy, 2020, 14, 238-244.	1.4	14
35	Enhancement of CYP3A4 Activity in Hep G2 Cells by Lentiviral Transfection of Hepatocyte Nuclear Factor-1 Alpha. PLoS ONE, 2014, 9, e94885.	1.1	14
36	The chondroprotective effect of diosmin on human articular chondrocytes under oxidative stress. Phytotherapy Research, 2019, 33, 2378-2386.	2.8	13

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37	Threeâ€dimensional spherical gelatin bubbleâ€based scaffold improves the myotube formation of H9c2 myoblasts. Biotechnology and Bioengineering, 2019, 116, 1190-1200.	1.7	13
38	Comparison of Bioartificial Pancreas Performance in the Bone Marrow Cavity and Intramuscular Space. Archives of Medical Research, 2010, 41, 151-153.	1.5	12
39	Injectable and biodegradable composite bone filler composed of poly(propylene fumarate) and calcium phosphate ceramic for vertebral augmentation procedure: An in vivo porcine study. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2017, 105, 2232-2243.	1.6	12
40	Evaluation of adhesion, proliferation, and differentiation of human adipose-derived stem cells on keratin. Journal of Polymer Research, 2018, 25, 1.	1.2	12
41	Zwitterionic poly(sulfobetaine methacrylate) hydrogels incorporated with angiogenic peptides promote differentiation of human adipose-derived stem cells. RSC Advances, 2017, 7, 51343-51351.	1.7	11
42	Lowâ€adhesive ethylene vinyl alcoholâ€"based packaging to xenogeneic islet encapsulation for type 1 diabetes treatment. Biotechnology and Bioengineering, 2018, 115, 2341-2355.	1.7	11
43	Keratin-Associated Protein Nanoparticles as Hemostatic Agents. ACS Applied Nano Materials, 2021, 4, 12798-12806.	2.4	10
44	Investigating the suspension culture on aggregation and function of mouse pancreatic Î²â€cells. Journal of Biomedical Materials Research - Part A, 2013, 101A, 2273-2282.	2.1	9
45	The influence of oxygen concentration on the extracellular matrix production of human nucleus pulposus cells during isolationâ€expansion process. Journal of Biomedical Materials Research - Part A, 2017, 105, 1575-1582.	2.1	9
46	Silymarin modulates catabolic cytokine expression through Sirt1 and SOX9 in human articular chondrocytes. Journal of Orthopaedic Surgery and Research, 2021, 16, 147.	0.9	9
47	Antifibrotic Effect of Bletilla striata Polysaccharide-Resveratrol-Impregnated Dual-Layer Carboxymethyl Cellulose-Based Sponge for The Prevention of Epidural Fibrosis after Laminectomy. Polymers, 2021, 13, 2129.	2.0	9
48	Limitation of the antibioticâ€eluting bone graft substitute: An example of gentamycinâ€impregnated calcium sulfate. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2018, 106, 80-87.	1.6	8
49	Synergistic effect of <scp>l</scp>â€ascorbic acid and hyaluronic acid on the expressions of matrix metalloproteinaseâ€3 and â^'9 in human chondrocytes. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2018, 106, 1809-1817.	1.6	8
50	CD24 expression indicates healthier phenotype and less tendency of cellular senescence in human nucleus pulposus cells. Artificial Cells, Nanomedicine and Biotechnology, 2019, 47, 3021-3028.	1.9	8
51	Effect of thermal treatments on the structural change and the hemostatic property of hair extracted proteins. Colloids and Surfaces B: Biointerfaces, 2020, 190, 110951.	2.5	8
52	l-Lysine regulates tumor necrosis factor-alpha and matrix metalloproteinase-3 expression in human osteoarthritic chondrocytes. Process Biochemistry, 2016, 51, 904-911.	1.8	7
53	Evaluation of the post-treatment anti-inflammatory capacity of osteoarthritic chondrocytes: An inÂvitro study using baicalein. Regenerative Therapy, 2020, 14, 177-183.	1.4	7
54	Ultrasonography-Guided Minimally Invasive Surgery for Achilles Sleeve Avulsions. Foot and Ankle International, 2021, 42, 544-553.	1.1	7

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55	Intramedullary Cavity as an Implant Site for Bioartificial Pancreas: An In Vivo Study on Diabetic Canine. Transplantation, 2010, 90, 604-611.	0.5	6
56	ACUTE AND SUBACUTE ORAL TOXICITY TESTS OF SINTERED DICALCIUM PYROPHOSPHATE ON OVARIECTOMIZED RATS FOR OSTEOPOROSIS TREATMENT. Biomedical Engineering - Applications, Basis and Communications, 2010, 22, 169-176.	0.3	6
57	Comparison of Transforming Growth Factor-Beta1 and Lovastatin on Differentiating Mesenchymal Stem Cells toward Nucleus Pulposus-like Phenotype: An In Vitro Cell Culture Study. Asian Spine Journal, 2019, 13, 705-712.	0.8	6
58	Calcium Phosphate Cement Chamber as an Immunoisolative Device for Bioartificial Pancreas. Pancreas, 2010, 39, 444-451.	0.5	5
59	Sintered dicalcium pyrophosphate decreases bone turnover rate in osteoporotic rat: A study on serum biochemical bone turnover markers. Biomedicine and Aging Pathology, 2011, 1, 46-51.	0.8	5
60	Cell coupling regulates Ins1, Pdx-1 and MafA to promote insulin secretion in mouse pancreatic beta cells. Process Biochemistry, 2011, 46, 1853-1860.	1.8	5
61	A self-reinforcing biodegradable implant made of poly(É›-caprolactone)/calcium phosphate ceramic composite for craniomaxillofacial fracture fixation. Journal of Cranio-Maxillo-Facial Surgery, 2016, 44, 1333-1341.	0.7	5
62	l -glutamine regulates the expression of matrix proteins, pro-inflammatory cytokines and catabolic enzymes in interleukin-1beta-stimulated human chondrocytes. Process Biochemistry, 2016, 51, 414-421.	1.8	5
63	Ultrasound-Guided Minimally Invasive Surgical Resection of Retrocalcaneal Bursitis: A Preliminary Comparison With Traditional Open Surgery. Journal of Foot and Ankle Surgery, 2019, 58, 855-860.	0.5	5
64	Midterm Results of Fresh-Frozen Osteochondral Allografting for Osteochondral Lesions of the Talus. Foot and Ankle International, 2021, 42, 8-16.	1.1	5
65	Infrapatellar Fat Padsâ€“Derived Stem Cell Is a Favorable Cell Source for Articular Cartilage Tissue Engineering: An In Vitro and Ex Vivo Study Based on 3D Organized Self-Assembled Biomimetic Scaffold. Cartilage, 2021, 13, 508S-520S.	1.4	5
66	Enhancement of the anticoagulant capacity of polyvinyl chloride tubing for cardiopulmonary bypass circuit using aluminum oxide nanoscale coating applied through atomic layer deposition. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2022, 110, 527-534.	1.6	5
67	Prevascularization-free Primary Subcutaneous Transplantation of Xenogeneic Islets Coencapsulated With Hepatocyte Growth Factor. Transplantation Direct, 2020, 6, e620.	0.8	5
68	Enhancement of biodegradation and osseointegration of poly(Îµ -caprolactone)/calcium phosphate ceramic composite screws for osteofixation using calcium sulfate. Biomedical Materials (Bristol), 2016, 11, 025012.	1.7	4
69	An assessment of femoral rotational alignment of mini-incision total knee arthroplasty: A comparison based on the transepicondylar line from the kneeling view and the intraoperative posterior condylar line. Journal of Orthopaedic Science, 2017, 22, 506-511.	0.5	4
70	A multiple-funnels cell culture insert for the scale-up production of uniform cell spheroids. Regenerative Therapy, 2017, 7, 52-60.	1.4	4
71	The influence of vancomycin on extracellular matrix and pro-inflammatory cytokine expression in human articular chondrocytes. Process Biochemistry, 2018, 65, 178-185.	1.8	4
72	Effect of Basic Fibroblast Growth Factor on Xenogeneic Islets in Subcutaneous Transplantationâ€”A Murine Model. Transplantation Proceedings, 2019, 51, 1458-1462.	0.3	4

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73	Glow Discharge Plasma Treatment on Zirconia Surface to Enhance Osteoblastic-Like Cell Differentiation and Antimicrobial Effects. Materials, 2020, 13, 3771.	1.3	4
74	Current treatment concepts for osteochondral lesions of the talus. Tzu Chi Medical Journal, 2021, 33, 243.	0.4	4
75	Conservative treatment of recurrent symptoms of an incomplete, atypical femoral fracture associated with glucocorticoid, bisphosphonate, and denosumab therapy in a patient with chronic obstructive pulmonary disease. Acta Clinica Belgica, 2019, 74, 370-374.	0.5	4
76	The in vivo performance of bioartificial pancreas in bone marrow cavity: A case report of a spontaneous diabetic feline. Biochemical and Biophysical Research Communications, 2010, 393, 362-364.	1.0	3
77	GELATINâ€“CHONDROITINâ€“HYALURONAN TRI-COPOLYMER SCAFFOLD SEEDED WITH DENTAL BUD CELLS FOR ODONTOGENESIS: ANEX VIVOSTUDY ON NUDE MICE. Biomedical Engineering - Applications, Basis and Communications, 2010, 22, 535-547.	0.3	2
78	Effects of Activin in Embryoid Bodies Expressing Fibroblast Growth Factor 5. Cellular Reprogramming, 2016, 18, 171-186.	0.5	2
79	Improvement in the Biological Properties of Titanium Surfaces with Low-Temperature Plasma. Metals, 2019, 9, 943.	1.0	2
80	Microenvironment-regulated gene expression, morphology, and in vivo performance of mouse pancreatic Î²-cells. Process Biochemistry, 2013, 48, 58-67.	1.8	1
81	RADIOLOGICAL ASSESSMENTS OF INJECTED CALCIUM SULFATE BONE CEMENTS IN THE TREATMENT OF DISTAL RADIAL FRACTURE. Biomedical Engineering - Applications, Basis and Communications, 2013, 25, 1340006.	0.3	1
82	Long-Term Oral Toxicity and Anti-osteoporotic Effect of Sintered Dicalcium Pyrophosphate in Rat Model of Postmenopausal Osteoporosis. Journal of Medical and Biological Engineering, 2017, 37, 181-190.	1.0	1
83	Improvement of Corrosion Resistance and Biocompatibility of Biodegradable Mgâ€“Ca Alloy by ALD HfZrO2 Film. Coatings, 2022, 12, 212.	1.2	1
84	Unusual neuromuscular presentation of a Wilsonâ€™s disease patient with one-stage surgical correction treatment: A case report. Journal of Orthopaedic Surgery, 2020, 28, 230949902093405.	0.4	0